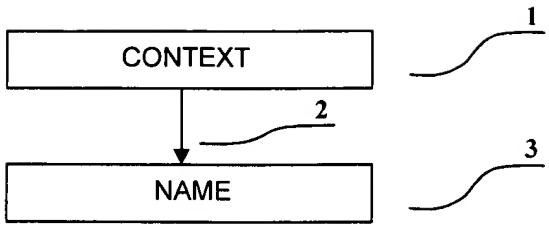

FIG. 1

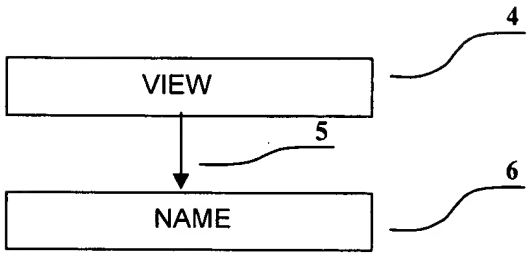

FIG. 2

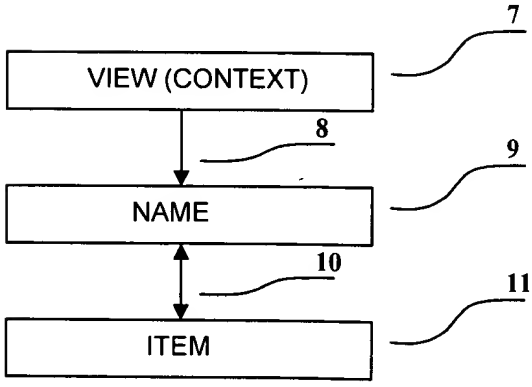

FIG. 3

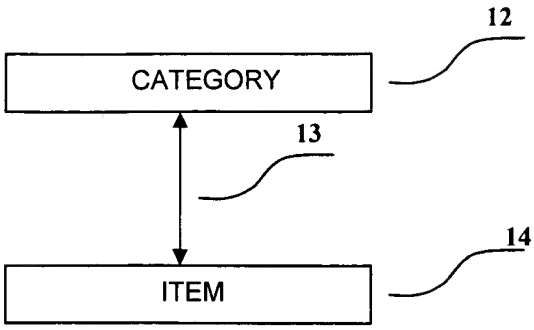
12
CATEGORY
13
14
ITEM

FIG. 4

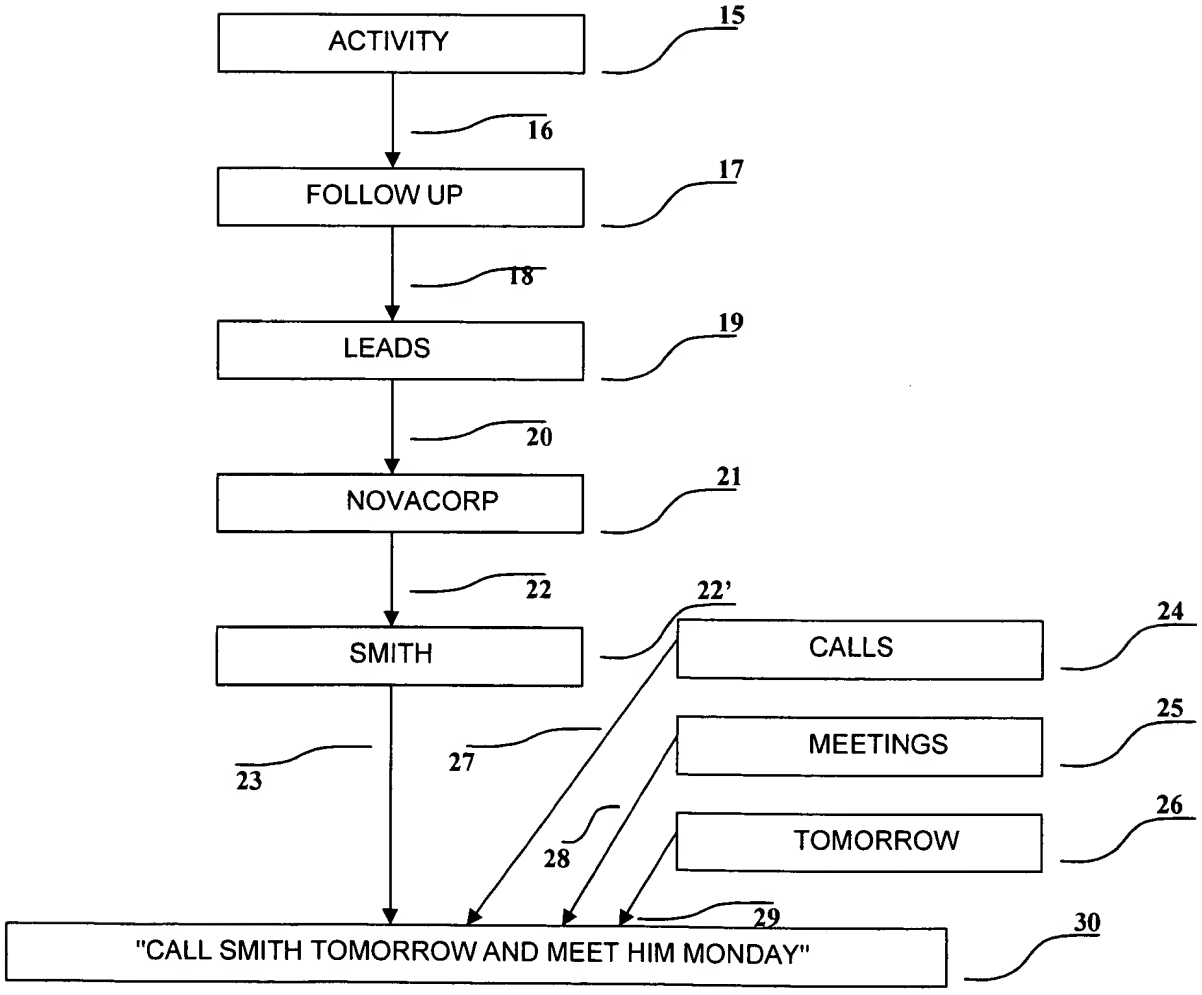
15
ACTIVITY
16
17
FOLLOW UP
18
19
LEADS
20
21
NOVACORP
22
22'
24
SMITH
CALLS
25
MEETINGS
23
27
26
28
TOMORROW
29
30
"CALL SMITH TOMORROW AND MEET HIM MONDAY"

FIG. 5

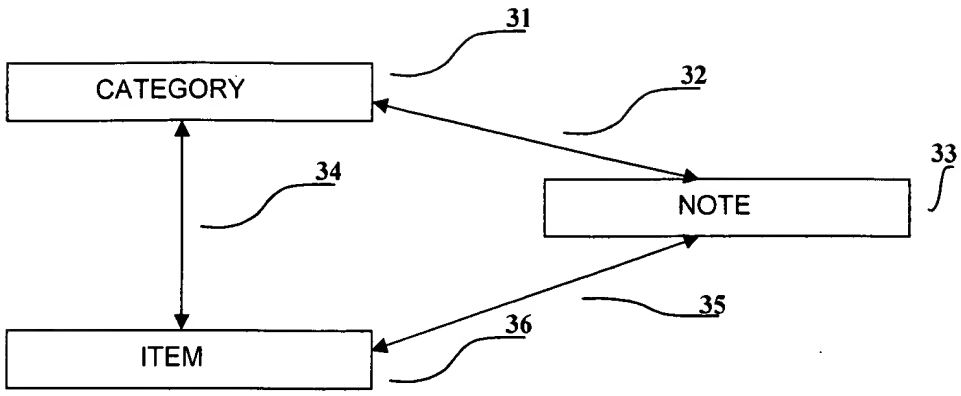
31
CATEGORY
32
33
34
NOTE
35
36
ITEM

FIG. 6

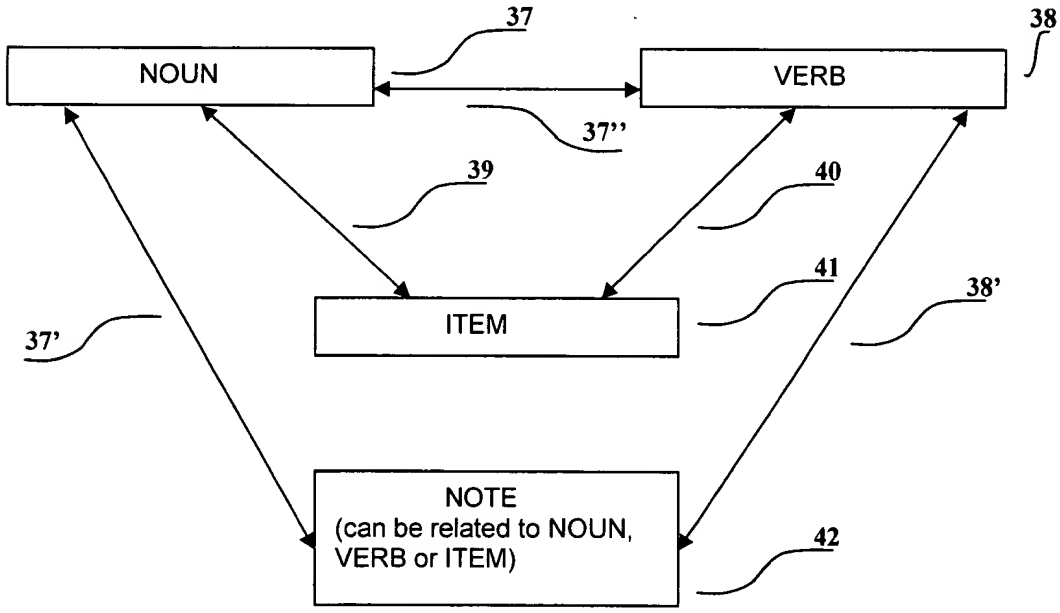
37
38
NOUN
VERB
37''
39
40
41
38'
37'
ITEM
NOTE
(can be related to NOUN,
VERB or ITEM)
42

FIG. 7

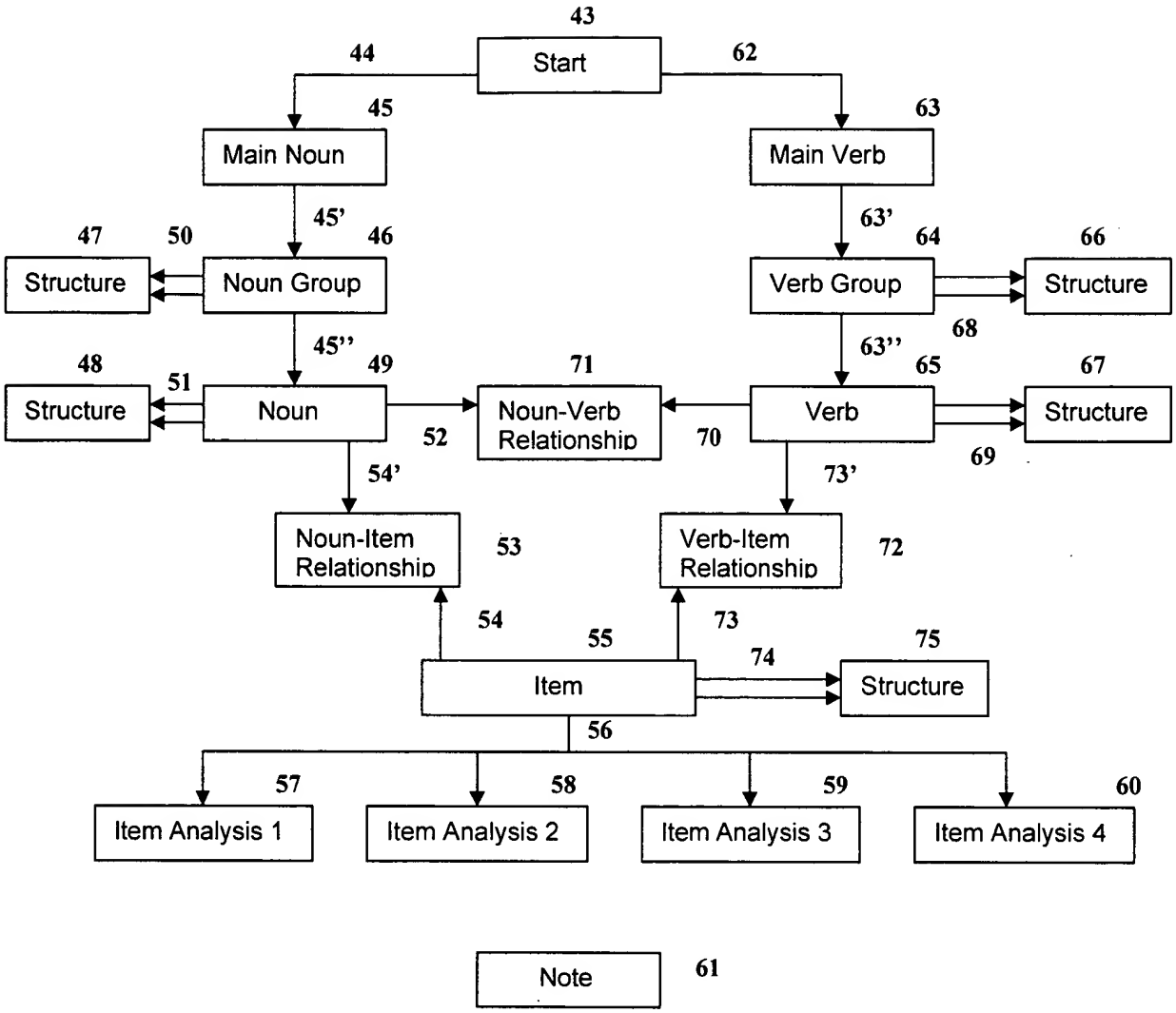
43
Start
44
62
45
Main Noun
63
Main Verb
45'
63'
47
50
46
64
66
Structure
Noun Group
Verb Group
Structure
68
45''
63''
48
51
49
71
65
67
Structure
Noun
Noun-Verb Relationship
Verb
Structure
52
70
69
54'
73'
Noun-Item Relationship
53
Verb-Item Relationship
72
54
73
55
74
75
Item
Structure
56
57
58
59
60
Item Analysis 1
Item Analysis 2
Item Analysis 3
Item Analysis 4
Note
61

FIG. 8

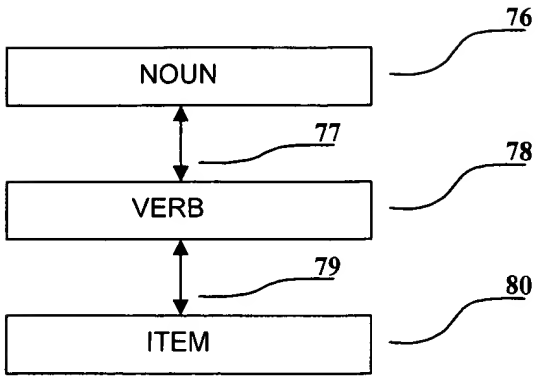

FIG. 9

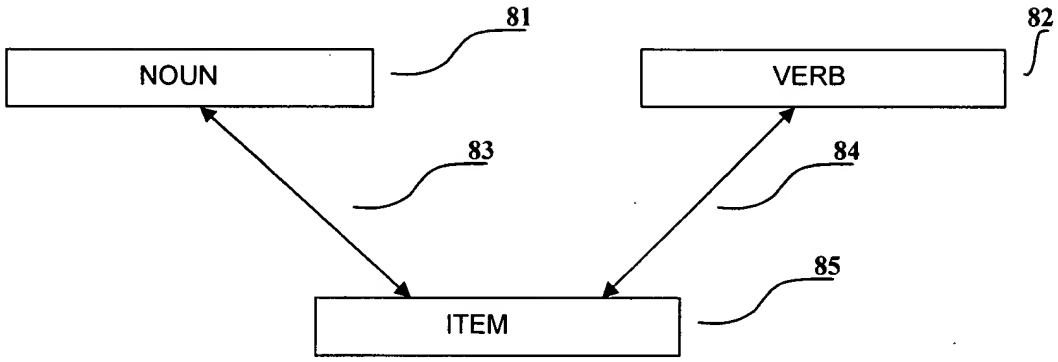

FIG. 10

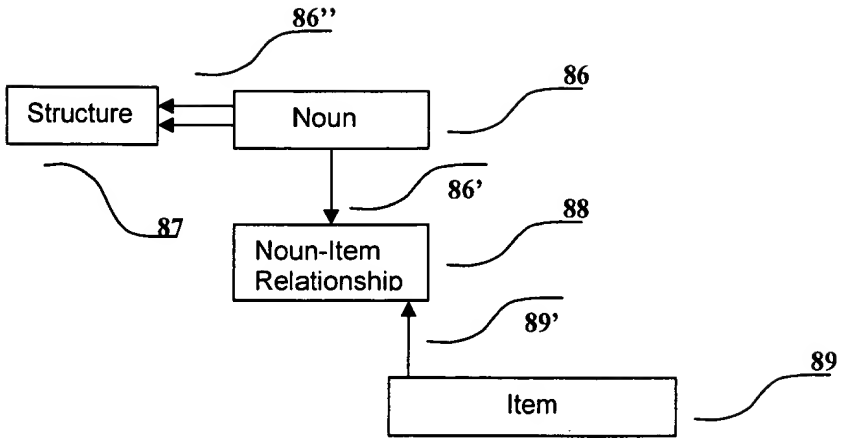
86''
Structure
Noun
86
86'
87
88
Noun-Item
Relationship
89'
89
Item

FIG. 11

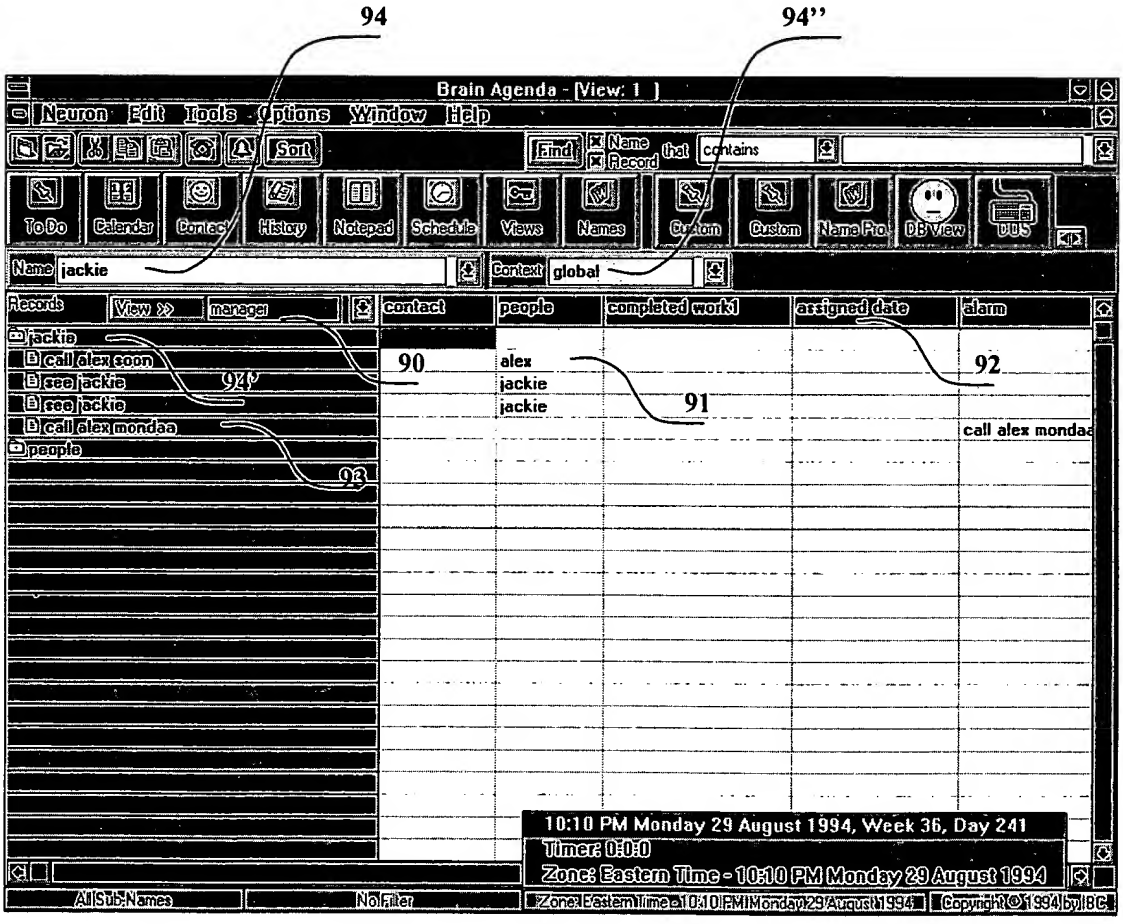
94
94''
Brain Agenda - [View: 1]
Neuron Edit Tools Options Window Help
Sort
Find
Name
Record
that
contains
To Do
Calendar
Contact
History
Notepad
Schedule
Views
Names
Custom
Custom
Name Pro
DB View
DDS
Name
jackie
Context
global
Records
View >>
manager
contact
people
completed work!
assigned date
alarm
jackie
call alex soon
see jackie
see jackie
call alex mondaa
people
90
alex
jackie
jackie
91
92
call alex monda
94'
93
10:10 PM Monday 29 August 1994, Week 36, Day 241
Timer: 0:0:0
Zone: Eastern Time - 10:10 PM Monday 29 August 1994
All Sub-Names
No Filter
Zone: Eastern Time - 10:10 PM Monday 29 August 1994
Copyright © 1994 by BC

FIG. 12

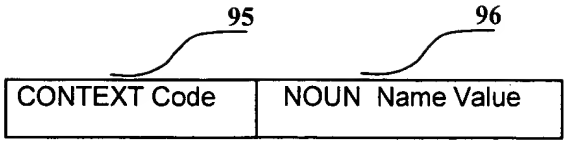

FIG. 13

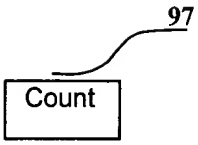

FIG. 14

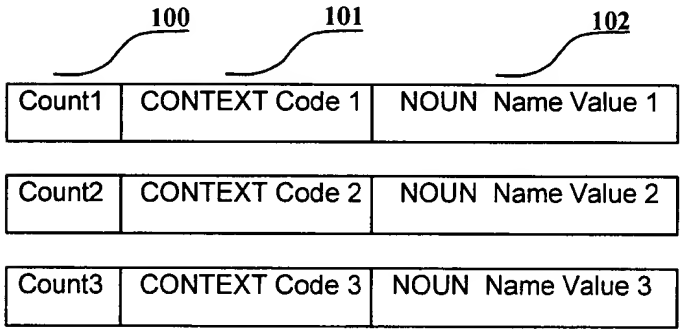

FIG. 15

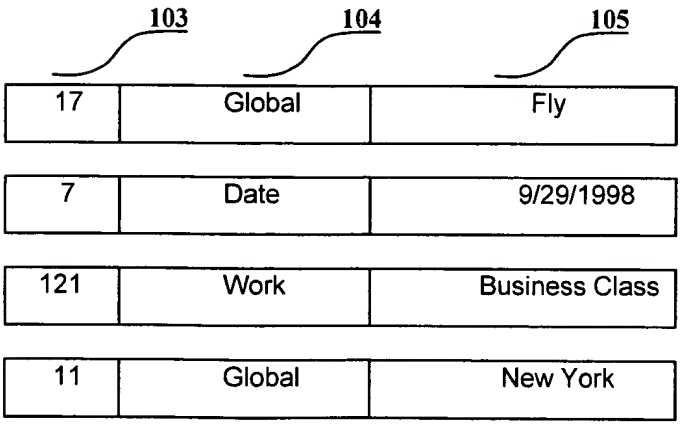

FIG. 16

```
/*************************************************************************
/
/*
*/
/*            BRAIN     Schema for the database BRAIN.
*/
/*                      Global schema for every neuron.
*/
/*
*/
/*  Identyfication:
*/
/*                  1000-0-00-00-00
*/
/*                  ---- - -- -- --       neuron   0001/.../1000
*/
/*                                        portion  0/1/2
*/
/*                                        relation 00/10/.../54
*/
/*                                        release   1
*/
/*                                        version   1
*/
/*
*/
/*            Portion     1
*/
/*                        0             Abstraction
*/
/*                        1             Reality
*/
/*                        2             Abstraction-Reality
relation*/
/*
*/
/*            Part        11            Noun+Data+Doc
*/
/*                        10            Noun
*/
/*                        14            Noun-Data
*/
/*                        15            Noun-Doc
*/
/*                        40            Data
*/
/*                        45            Data-Doc
*/
/*                        50            Doc
*/
/*
*/
/*            Release     01
*/
```

FIG. 17A

```
/*                          01              Alpha release
*/
/*                          02              Beta  release
*/
/*
*/
/*              Version     01
*/
/*                          01              Alpha version
*/
/*                          02              Beta  version
*/
/*
*/
/*************************************************************************
/
/* Module name : Brain Agenda - Personal Information Manager
*/
/*                NEURON_1000
*/
/*************************************************************************
/
/* Implemented : RAIMA, db_VISTA III
*/
/*
*/
/* Compile type: ddp
*/
/*                def. ddlp -rxbds brain.ddl
*/
/*                     -r - report
*/
/*                      x - cross reference
*/
/*                      b - no alignment
*/
/*                      d - dupl. field names
*/
/*                      s - case preserve
*/
/*************************************************************************
/
/* 1. | BRAIN   | 1991.09.01 | New
*/
/*************************************************************************
/
/* 1000-0-00-00-00    6144*/
database BRAIN [6144]
  {
    data file "F100010.00" contains
/* 1000-0-10-00-00 */
                                        noun;
    data file "F100011.00" contains
/* 1000-0-11-00-00 */
```

FIG. 17B

```
                              datar,
                              datar_tabl;
    data file "F100012.00" contains
/* 1000-0-11-00-00 */
                              noun_datar,
                              noun_str,
                                        noun_synonim,
                              datar_str,
                                        action_before,
                              action_after;

     data file "F100019.00" contains
/* 1000-0-10-00-00 */
                              brain,
/* 1000-0-50-00-00 */
                              note;

    key  file "F100010.00K" contains
                              noun.id;
    key  file "F100011.00K" contains
                              datar.id;
    key  file "F100019.00K" contains
                              note.id;
/*************************************************************************
/
/* Sub-schema  : BRAIN - NOUN
*/
/* Description : Noun (Parameter) part of BRAIN
*/
/*************************************************************************
/
/* Record type : brain
*/
/* Description : Start of the NEURON  1000
*/
/*************************************************************************
/
    record brain
      {
      char           db_path [81];      /* Path to database          */
      char           db_name [81];      /* name of the db "brain"    */
      struct
          {
          long          type_v;        /* noun type, view id        */
          char          kname_v [41]; /* noun 40B + 1B null termin*/
          long          subtype_v;     /* noun subtype, def = 0     */
        } id_v;
          char          name_v [256]; /*                           */
        struct
          {
          long          type_n;        /* noun type, name id        */
          char          kname_n [41]; /* noun 40B + 1B null termin*/
          long          subtype_n;     /* noun subtype, def = 0     */
          long          type2_n;       /* noun 2 type, def = 0      */
```

FIG. 17C

```
        char          kname2_n [41];/* noun 40B + 1B null termin*/
        long          subtype2_n;   /* noun subtype, def = 0    */
        } id_n;
          char          name_n [256];   /*
*/
      long          read_action;       /* action on load          */
      long          next_1;            /* next available ???      */
      long          next_2;            /* number for extention    */
      long          next_3;            /* noun ext.,noun definition*/
      long          value_1 ;          /*                         */
      long          value_2 ;          /*                         */
      long          value_3 ;          /*                         */
      double        double_1;          /*                         */
      double        double_2;          /*                         */
      double        double_3;          /*                         */
      char          reserve_1[41];     /*                         */
      char          reserve_2[41];     /*                         */
      char          free[5001];        /*                         */
      }
/*************************************************************************
/
/* Record type : noun
*/
/* Description : names (views,names,contexts)
*/
/*************************************************************************
/
    record noun
      {
        unique key struct
          {
          long          type;       /* noun type, def = 0       */
          char          kname [41]; /* noun 40B + 1B null termin*/
          long          subtype;    /* noun subtype, def = 0    */
          long          type2;      /* noun 2 type, def = 0     */
          char          kname2 [41];/* noun 40B + 1B null termin*/
          long          subtype2;   /* noun subtype, def = 0    */
          } id;
          char          name[256]; /* 255+1                     */
      struct
          {
          long          type_p;       /* noun type, pair id       */
          char          kname_p [41]; /* noun 40B + 1B null termin*/
          long          subtype_p;    /* noun subtype, def = 0    */
        } id_p;
            long   cf;                /* certainity factor        */
            long   delete;            /*                          */
            long   joint_id;          /* neuron||joint     long   */
            long   read_action;       /* action on read           */
            double date_create;       /*                          */
            double date_when;         /*                          */
            double date_done;         /*                          */
            double date_start;        /*                          */
            double date_end;          /*                          */
```

FIG. 17D

```
        char     short_name [21];     /*            1B null termin*/
        char     cat_type [11];       /*            1B null termin*/
        char     exclusive [2];       /*            1B null termin*/
        char     settings [41];       /*            1B null termin*/
        long     layout_link;    /* type of layout for linked note*/
      struct
        {
        long          type_link;      /* link to extention which  */
        char          kname_link [41];/* is in note               */
        long          subtype_link;   /*reserve the range of notes*/
        } id_link;
      struct
        {
            long   type_note;         /* note id                  */
            char   kname_note [41];   /* note name                */
            long   subtype_note;      /* note page                */
        } id_note;
            long   position_note;     /*         in document/page */
            char   free_1  [101];
            char   free_2  [101];
            char   reserve_1[21];     /*3 sets person company     */
            char   reserve_2[11];     /*       notes (commence)   */
            char   reserve_3[11];     /*       notes (commence)   */
      }
/*********************************************************************
/
/* Record type : datar                                    */
/* Description : records from Brain Agenda
*/
/*********************************************************************
/
    record datar
      {
        unique key struct
          {
          long          type;       /* data type, def = 0       */
          char          kname [41]; /* data 40B + 1B null termin*/
          long          subtype;    /* data subtype, def = 0    */
        } id;
          char          name[256]; /* 255+1                     */
               long   cf;               /* certainity factor
*/
            long   delete;            /*                          */
                long   joint_id;          /* neuron||joint     long
*/
            long   read_action;       /* action on read           */
            double date_create;       /*                          */
            double date_when;         /*                          */
            double date_done;         /*                          */
            double date_start;        /*                          */
            double date_end;          /*                          */
            char   settings [41];     /*            1B null termin*/
      struct
        {
```

FIG. 17E

```
            long   type_note;          /* note id                    */
            char   kname_note [41];    /* note name                  */
            long   subtype_note;       /* note page                  */
        } id_note;
            long   position_note;      /*         in document/page   */
            long   long_1;             /*                            */
            char   reserve_1[11];      /*                            */
            char   reserve_2[11];      /*                            */
            char   reserve_3[11];      /*                            */
            char   reserve_4[11];      /*                            */
    }
/*************************************************************************
/
/* Record type : datar_tabl                                              */
/* Description : data tables
*/
/*************************************************************************
/
    record datar_tabl
      {
            long   elem [120];         /* 120 elements               */
            long   cf;                 /* certainity factor          */
            long   delete;             /*                            */
            double date_create;        /*                            */
            long   read_action;        /* action on read             */
            double double_1;           /*                            */
            char   reserve_1[11];      /*                            */
            char   reserve_2[21];      /*                            */
    }
/*************************************************************************
/
/* Record type : note
*/
/* Description : notes (pages ) document
*/
/*************************************************************************
/
    record note
       {
        unique key struct
          {
          long          from;       /* doc id +datar,-name,0-user  */
          long          type;       /* from record or name         */
          char          kname [41]; /* chapter||paragraph||verse
blank*/
          long          subtype;    /* for user=0                  */
          long          page_nr;    /* page nr                     */
        } id;
          char          name [256];    /*                          */
            long   cf;                /* certainity factor        */
            char   chapter  [101];    /*     left on page         */
            char   chapter_1[101];    /*     left on page         */
            char   chapter_2[101];    /*     left on page         */
            char   chapter_3[101];    /*     left on page         */
```

FIG. 17F

```
            char    chapter_4[101];    /*      left on page          */
            char    chapter_5[101];    /*      left on page          */
            char    chapter_6[101];    /*      left on page          */
            long    verse;             /*      left on page          */
            char    page [5001];       /* page   5001               */
            long    delete;            /*                           */
            long    read_action;       /* action on read            */
            char    reserve_1 [11];
            char    reserve_2 [11];
            char    reserve_3 [11];
            char    reserve_4 [11];
      }
/*************************************************************************
/
/* Record type : noun_str
*/
/* Description : structure of the noun
*/
/*************************************************************************
/
    record noun_str
      {
            long    cf;                /* certainity factor         */
            double  date_create;       /*                           */
            long    read_action;       /* action on read            */
            double  double_1;          /*                           */
            char    reserve_2[11];     /*                           */
            char    reserve_3[11];     /*                           */
      }
/*************************************************************************
/
/* Record type : noun_datar
*/
/* Description : relation noun - datar                              */
/*************************************************************************
/
    record noun_datar
      {
            long    cf;                /* certainity factor         */
            double  date_create;       /*                           */
            long    read_action;       /* action on read            */
            double  double_1;          /*                           */
            char    reserve_2[11];     /*                           */
            char    reserve_3[11];     /*                           */
      }
/*************************************************************************
/
/* Record type : action before
*/
/* Description : must belong to the datar before being assigned to
*/
/*              the current datar                                   */
/*************************************************************************
/
```

FIG. 17G

```
    record action_before
      {
            long   cf;                /* certainity factor        */
            double date_create;       /*                          */
            long   read_action;       /* action on read           */
            double double_1;          /*                          */
            char   reserve_2[11];     /*                          */
            char   reserve_3[11];     /*                          */
      }
/*************************************************************************
/
/* Record type : noun action after
*/
/* Description : is assigned to noun after being assigned to
*/
/*               the current noun
*/
/*************************************************************************
/
    record action_after
      {
            long   cf;                /* certainity factor        */
            double date_create;       /*                          */
            long   read_action;       /* action on read           */
            double double_1;          /*                          */
            char   reserve_2[11];     /*                          */
            char   reserve_3[11];     /*                          */
      }
/*************************************************************************
/
/* Record type : noun_synonim
*/
/* Description : all synonims for a noun
*/
/*************************************************************************
/
    record noun_synonim
      {
            long   cf;                /* certainity factor        */
            double date_create;       /*                          */
            long   read_action;       /* action on read           */
            double double_1;          /*                          */
            char   reserve_2[11];     /*                          */
            char   reserve_3[11];     /*                          */
      }
/*************************************************************************
/
/* Record type : datar_str
*/
/* Description : structure of the datar
*/
/*************************************************************************
/
    record datar_str
```

FIG. 17H

```
      {
            long   cf;                /* certainity factor        */
            double date_create;       /*                          */
            long   read_action;       /* action on read           */
            double double_1;          /*                          */
            char   reserve_2[11];     /*                          */
            char   reserve_3[11];     /*                          */
      }
/*************************************************************************
/
/* Set type    : noun_set
*/
/* Description : Search path for noun
*/
/*************************************************************************
/
    set noun_set
      {
        order descending;
        owner brain;
      member noun by cf;
      }
/*************************************************************************
/
/* Set type    : datar set
*/
/* Description : Search path for datar record
*/
/*************************************************************************
/
    set datar_set
      {
        order descending;
      owner noun;
      member noun_datar by cf;
      }
/*************************************************************************
/
/* Set type    : datar_noun set
*/
/* Description : Search path for noun from datar
*/
/*************************************************************************
/
    set datar_noun_set
      {
        order descending;
      owner datar;
      member noun_datar by cf;
      }
/*************************************************************************
/
/* Set type    : noun_synonim_exp_set
*/
```

FIG. 17I

```
/* Description : Search path for noun synonim explosion
*/
/*************************************************************************
/
    set noun_synonim_exp_set
      {
        order descending;
      owner noun;
      member noun_synonim by cf;
      }
/*************************************************************************
/
/* Set type    : noun_synonim_imp_set
*/
/* Description : Search path for noun synonim implosion
*/
/*************************************************************************
/
    set noun_synonim_imp_set
      {
        order descending;
      owner noun;
      member noun_synonim by cf;
      }
/*************************************************************************
/
/* Set type    : noun_exp_set
*/
/* Description : Search path for noun explosion
*/
/*************************************************************************
/
    set noun_exp_set
      {
        order descending;
      owner noun;
      member noun_str by cf;
      }
/*************************************************************************
/
/* Set type    : noun_imp_set
*/
/* Description : Search path for noun record from noun_str
*/
/*************************************************************************
/
    set noun_imp_set
      {
        order descending;
      owner noun;
      member noun_str by cf;
      }
/*************************************************************************
/
```

FIG. 17J

```
/* Set type     : datar_exp_set
*/
/* Description : Search path for datar explosion
*/
/*************************************************************************
/
    set datar_exp_set
      {
        order descending;
      owner datar;
      member datar_str by cf;
      }
/*************************************************************************
/
/* Set type     : datar_imp_set
*/
/* Description : Search path for datar record from datar_str
*/
/*************************************************************************
/
    set datar_imp_set
      {
        order descending;
      owner datar;
      member datar_str by cf;
      }
/*************************************************************************
/
/* Set type     : action_before_exp set
*/
/* Description : Search path for action_before from noun
*/
/*************************************************************************
/
    set action_before_exp_set
      {
        order descending;
      owner noun;
      member action_before by cf;
      }
/*************************************************************************
/
/* Set type     : action_before_imp set
*/
/* Description : Search path for action_before from noun
*/
/*************************************************************************
/
    set action_before_imp_set
      {
        order descending;
      owner noun;
      member action_before by cf;
      }
```

FIG. 17K

```
/*************************************************************************
/
/* Set type    : action_after_exp set
*/
/* Description : Search path for action_after from noun
*/
/*************************************************************************
/
    set action_after_exp_set
      {
        order descending;
      owner noun;
      member action_after by cf;
      }
/*************************************************************************
/
/* Set type    : action_after_imp set
*/
/* Description : Search path for action_after from noun
*/
/*************************************************************************
/
    set action_after_imp_set
      {
        order descending;
      owner noun;
      member action_after by cf;
      }
/*************************************************************************
/
/* Set type    : datar_tabl set
*/
/* Description : Search path for datar_tabl from datar
*/
/*************************************************************************
/
    set datar_tabl_set
      {
        order descending;
      owner datar;
      member datar_tabl by cf;
      }
/* 1000-0-00-00-00 */
  }
/*************************************************************************
/
/* End of Schema: Brain Agenda
*/
/*************************************************************************
/
```

FIG. 17L

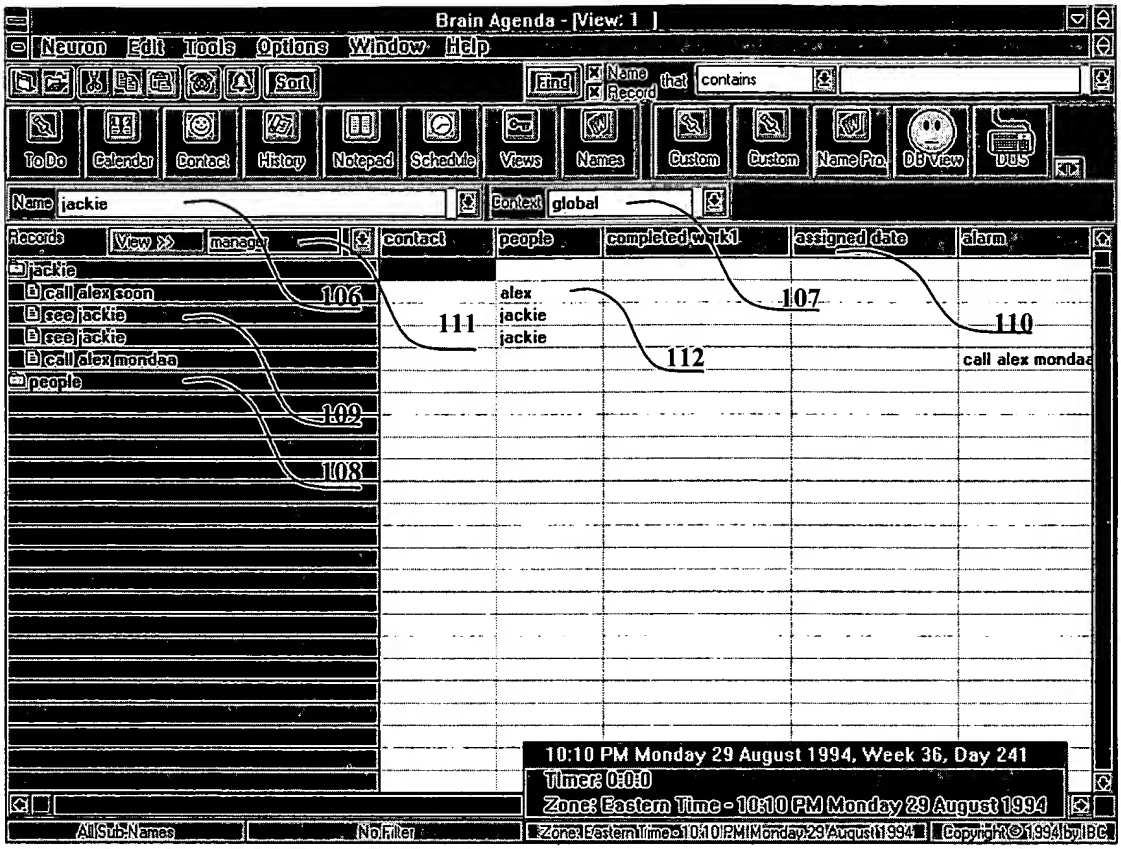
Brain Agenda - [View: 1]
Neuron Edit Tools Options Window Help
Sort
Find
Name
Record
that
contains
To Do
Calendar
Contact
History
Notepad
Schedule
Views
Names
Custom
Custom
Name Pro
DB View
DUS
Name jackie
Context global
Records
View >>
manager
contact
people
completed work1
assigned date
alarm
jackie
call alex soon
see jackie
see jackie
call alex monday
people
alex
jackie
jackie
call alex monday
106
111
112
107
110
102
108
10:10 PM Monday 29 August 1994, Week 36, Day 241
Timer: 0:0:0
Zone: Eastern Time - 10:10 PM Monday 29 August 1994
All Sub-Names
No Filter
Zone: Eastern Time - 10:10 PM Monday 29 August 1994
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FIG. 18